DRAPER®

THE TOOL COMPANY

DEHUMIDIFIER

■ STOCK No. 64665
64666

■ PART No. MD11
ED18

• INSTRUCTIONS •

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.

03/2001

GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of this dehumidifier and should be kept with the machine.

We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both the dehumidifier and operator safety.

All the photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the machine.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tool policy of continuous improvement determines the right to make modifications without prior warning.

DEHUMIDIFIERS

■ **STOCK No. 64665**
64666

■ **PART No. MD11**
ED18

THE TOOL COMPANY

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DECLARATION OF CONFORMITY

We
Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. England.

Declare under our sole responsibility that the product:

Part Numbers: MD11 & ED18 **Stock Numbers: 64665 & 64666**

Description:- Dehumidifier

To which this declaration relates is in conformity with the following directive(s).

73/23/EEC & 89/336/EEC

With reference to

EN60335-1, EN60335-2-40, EN61000-4-2, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

JOHN DRAPER
Managing Director

31/01/2001

SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Part No.	MD11	ED18
Stock No.	64665	64666
Power Supply	230V/AC	230V/AC
Moisture Removal		
27°c, RH60%	0.2kg/h	0.4kg/h
30°c, RH80%	11Ltr/day	18Ltr/day
Operating Current		
27°c, RH60%	0.86A	160A
30°c, RH80%	0.89A	177A
Power Consumption		
27°c, RH60%	190W	350W
30°c, RH80%	195W	390W
Air flow volume	80M^3/h	105M^3/h
Refrigerant	R22g/140g	R22g/230g
Water Tank Volume	6Ltr	6Ltr
Application area	8-12M^2	14-20M^2
Weight (Net/Gross)	16/18kg	16/18kg

*RH = RELATIVE HUMIDITY.

GUARANTEE

Draper dehumidifiers have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the product develop any fault, please return the complete tool to your nearest authorised

warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (023) 8026 6355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited

POWER SUPPLY

CONNECTING THE DEHUMIDIFIER TO THE POWER SUPPLY:
To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewireable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced an ASTA approved BS1362 fuse must be used of the same rating, marked thus ASTA. The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.
If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

***WARNING:**
A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

WARNING: THIS APPLIANCE MUST BE EARTHED.
Green and Yellow - Earth, Blue - Neutral, Brown - Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.:
The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter 'E' or by the earth symbol ⏚ or coloured green or green and yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.
The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.
N.B. Three phase machines must be connected by a qualified electrician.

EXTENSION LEAD CHART:
Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool/machine.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length	Wire Size mm^2			
7.5m	0.75	0.75	1.0	1.25
15m	0.75	0.75	1.0	1.5
22.5m	0.75	0.75	1.0	1.5
30m	0.75	0.75	1.25	1.5
45m	0.75	1.25	1.5	2.5

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SAFETY INSTRUCTIONS FOR DEHUMIDIFIER

- Before moving the unit ensure all collected water has been drained from the tank.
- Close all doors and windows in the room to achieve maximum efficiency.
- Wash the air filter in warm water every two weeks to retain good air flow to the machine. Do NOT use alcohol, petroleum, benzine or water over 40°C.
- Do not expose the air filter to direct sunlight.
- Do not stand heavy items on top of the unit or anything containing liquid which would cause spillage if knocked.
- Do not insert any foreign object through grilles.
- Avoid blocking the ventilation to the machine to maintain efficiency.
- Do not stand unit on soft or uneven surfaces.
- Do not place the machine in a position of increased heat.
- When away for long periods of time switch off and unplug the unit.
- When used in the continuous drainage mode, ensure the hose is even and free from blockage to avoid leakage.
- It is important to keep the unit upright at all times.

GETTING TO KNOW YOUR DEHUMIDIFIERS

MD11 SHOWN

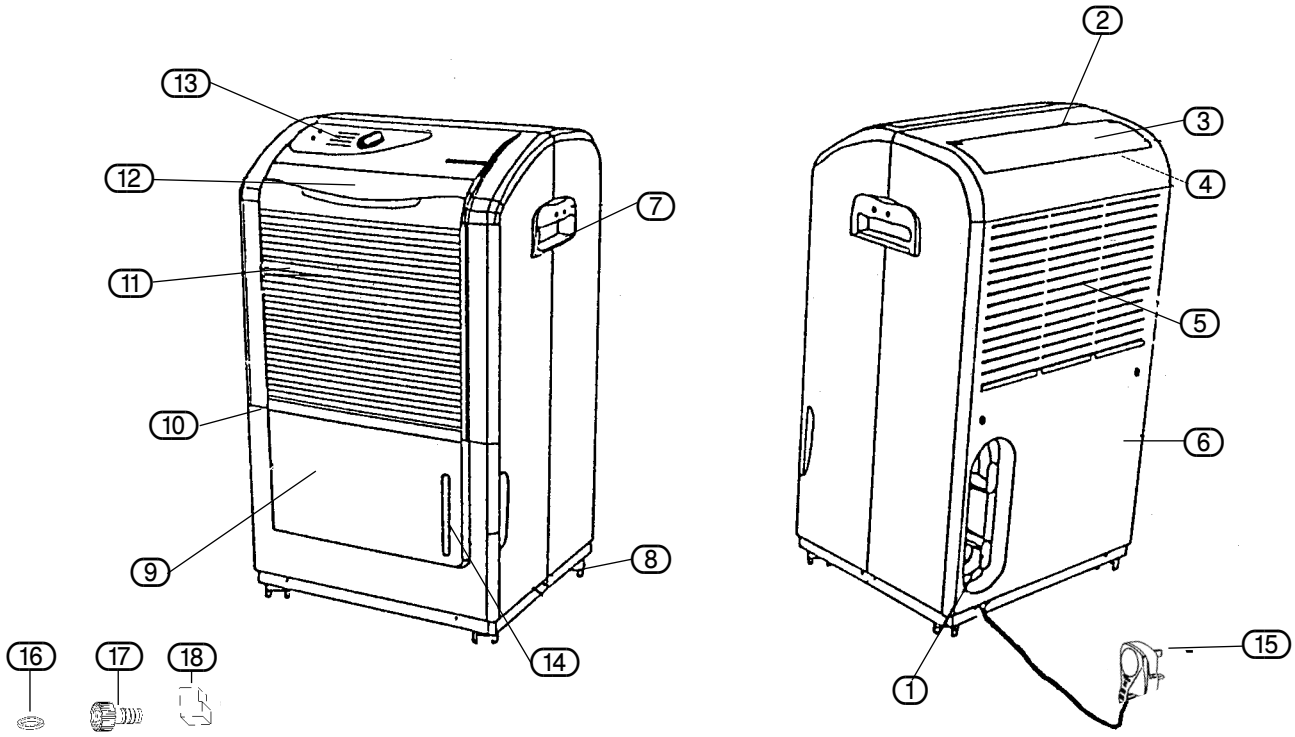

Fig.1.

Fig.1.

1. Cord winder.
2. Top air outlet.
3. Air Flap.
4. Compartment.
5. Back air outlet.
6. Back panel.
7. Handle.
8. Roller.
9. Water tank.
10. Front panel.
11. Air inlet.
12. Air filter.
13. Control panel
14. Water level.
15. Flexible cord.
16. Rubber washer.
17. Continuous drainage hose adaptor.
18. Switch lock.

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OPERATION AND USE

MD11 CONTROLS (Fig.2)

To switch the dehumidifier on rotate the switch (A) in a clockwise direction until the required position is selected. When the unit has been activated the indicator (B) will illuminate.

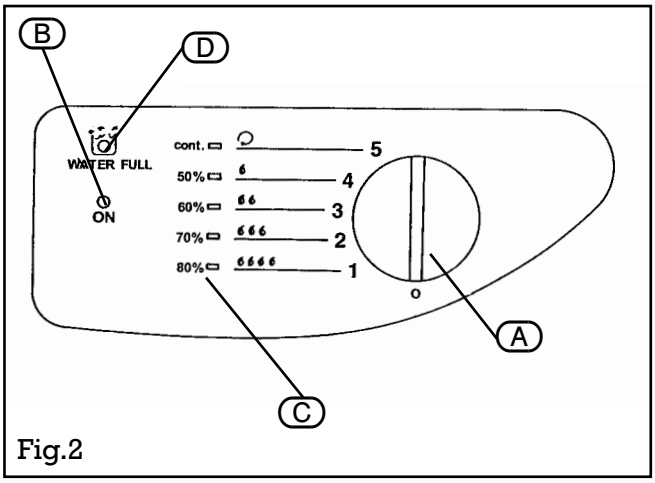

Fig.2

Position settings (C) are as follows:

Position 0	OFF
Position 1	RH80%
Position 2	RH70%
Position 3	RH60%
Position 4	RH50%
Position 5	CONTINUOUS

When the water collection tank is full the indicator (D) will illuminate and an audible alarm will sound.

ED18 CONTROLS (Fig.3)

To switch the dehumidifier on depress switch (E). When the unit has been activated the indicator (F) will illuminate. On initial power up the machine will adopt the factory preset (RH60%, fan speed 'high' and mode 'high').

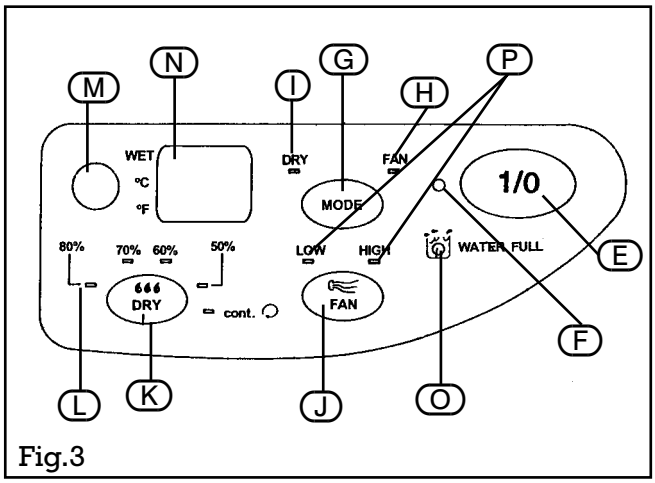

Fig.3

To select the desired 'relative humidity' setting press button (K) until the indicator (L) is illuminating your choice.

Press button (M) to alternate the display (N) between temperature in centigrade, temperature in fahrenheit or current relative humidity

To alter the rate of efficiency in moisture removal press (J) which will change the fan speed between high and low. The choice is indicated by the illumination of (P).

The dehumidifier can be set to fan operation instead of the usual dehumidifier by pressing (G).

When selection is made and (I) is illuminated the unit is in 'Dry' mode and normal moisture removal is taking place.

When selection is made and (H) is illuminated the unit is in 'Fan' mode and only the fan operates allowing free air circulation.

When the water collection tank is full the indicator (O) will illuminate and an audible alarm will sound.

Note: The higher the percentage of 'relative humidity' the greater the saturation of moisture in the air. When the unit reaches the desired percentage of air humidity it will stop until it senses the humidity rises, when moisture removal will automatically restart.

OPERATION AND USE

ADJUSTING THE AIR FLOW DIRECTION (Fig.4)
The unit pulls in the air through the front grille and exits the air through the back panel grille. To alter the air flow from the back panel grille to the upper grille, open panel (Q). After use ensure the panel is closed to avoid foreign objects falling into the working area of the machine.

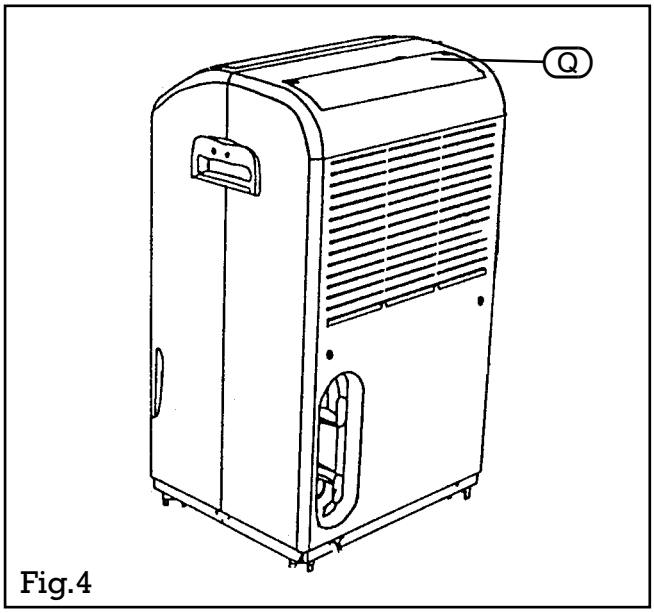

Fig.4

REMOVING THE AIR FILTER (Fig.5):
Lift up panel (R) which is part of the air filter assembly to remove it from the unit.

NOTE: This filter requires cleaning regularly and should be washed in warm water and allowed to dry away from direct sunlight. Do NOT wash the filter in alcohol, petroleum, benzine or water over 40°C other wise damage will occur.

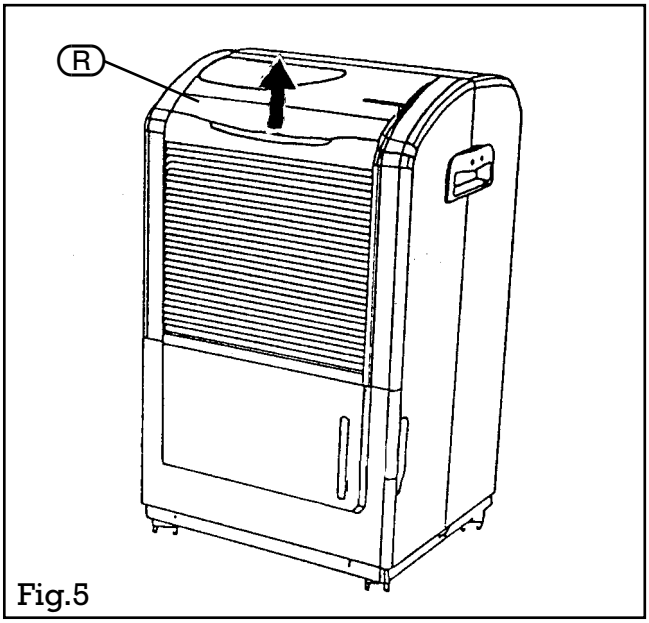

Fig.5

OPERATION AND USE

DRAINING METHODS (Fig.6 & 7):
When the water tank is full the audible alarm will sound, the display will illuminate red and the dehumidifier will stop collecting water until the tank is emptied. To remove the tank (S) lift the front edge slightly before pulling the tank outwards. Drain the tank and then replace. No water will drain while the tank is removed.

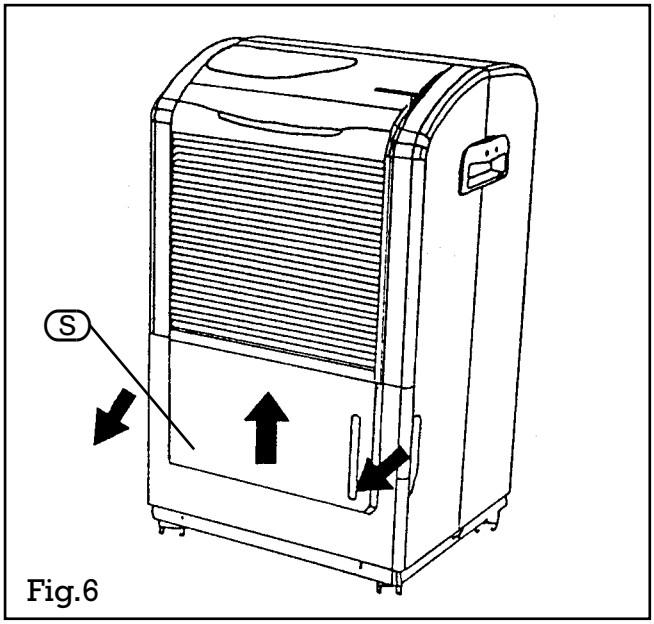

Fig.6

For continuous drainage the water outlet adaptor and 'O'ring (T) will need to be fitted. With the switch lock (V) in place the unit will now run continuously. A piece of 15mm hose (U) (not supplied) will push on to the adaptor and can be run to a drain.

Note: The machine should not be left for long periods of time in this mode. Occasionally check the hose connection has not slipped to allow water to escape. The hose must be kept as flat a possible to allow correct drainage.

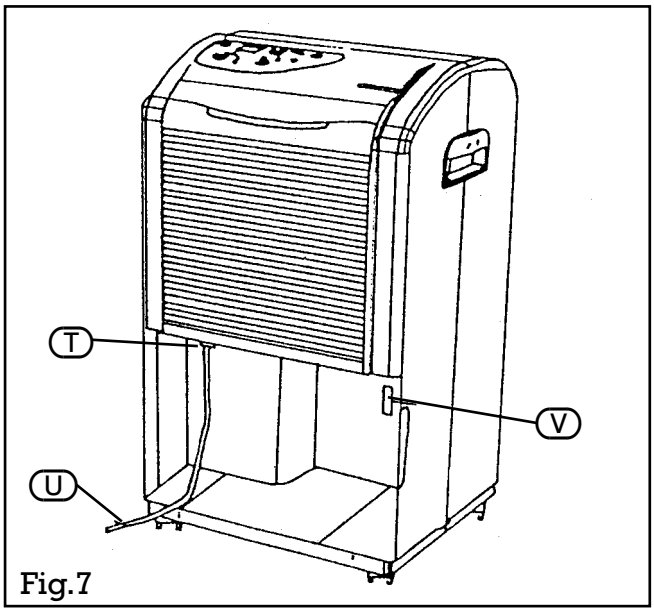

Fig.7

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE
The unit does not operate after the switch has been activated.	1. The water tank is not properly placed or the water tank is full. 2. The plug is not properly connected to the power. 3. The fuse has blown.
The dehumidifying efficiency is low.	1. The air filter is obstructed by dirt. 2. The room temperature is too low. 3. The air inlet or air outlet is obstructed.
The preset humidity level can not be reached after long periods of operation.	1. Door or windows are opened frequently. 2. Another appliance is generating moisture in the room. 3. The room size is too large.
Noise is high.	1. The ground is not hard and even. 2. The unit is not properly positioned.
The compressor stops operation during dehumidification, the humidity indicator flashes twice per second. (ED18 only).	If the fan motor is still operating, that means the unit is in defrost mode.
The alarm sounds before the water tank is full.	1. The water tank is not properly placed. 2. There is standing water or other obstacles on the water tank flap.

NOTES

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YOUR DRAPER STOCKIST

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